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Forestry Abstracts

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CABI's organizational structure comprises the Review Conference of member governments, which meets every five years; the Executive Council, with one representative from each member government, which meets four times per year; and the Directorate, including CABI Headquarters, its 4 Institutes and 11 Bureaux. The Director General is the chief executive, controlling the 410 staff, two thirds of whom are at managerial or professional level, through three Directors, for Information, Scientific and Administrative Services.

The organization exists to provide information, scientific and development services for agriculture and allied disciplines throughout the world.

INFORMATION SERVICES

The chief function of the Information Services is to provide ready access to published information on research in agriculture and allied disciplines, including rural development.

Over 100 scientists/linguists in CABI's eleven Bureaux, each one specialising in a particular subject area, scan the world literature, select the significant items, and prepare an informative abstract of each which is entered into the CAB ABSTRACTS bibliographic database. With some 2 million records in the database since 1973, and 3 million more in printed journals back to 1930, the total archive provides a unique encyclopaedic resource of unsurpassed reliability and quality.

The CAB ABSTRACTS database is publicly accessible online from major international online vendors. It is used to provide current awareness and retrospective information services in hard copy and machine-readable form. Chief among these are 46 printed abstract journals, which are taken by 10,000 subscribing organizations worldwide. New journals are started in response to changing users' needs or if sponsors guarantee the circulation. Users needing more specific information may select outputs that match their particular requirements, helped if necessary by CABI's subject experts; outputs are supplied as magnetic tape, computer printout, microfiche or floppy disk. The database is also available for testing on optical disk (CD-ROM), a new technology ideally suited to developing countries. To complete the service, photocopies of original articles are provided on request through the CABI Library Services.

Other functions of the Information Services include compilation of specialized databanks and directories, publication of primary journals, authoritative reviews and books, and training in information transfer for librarians, documentalists and information specialists.

SCIENTIFIC SERVICES

The Scientific Services of CABI are conducted by four Institutes, which provide an international service on pest identification and management. They deal with insect pests, fungal and bacterial agents, and human, animal and plant parasites and with all aspects and types of biological control of plant pests.

CAB International Institute of Entomology (CIE)

CIE provides an identification service for insects, mites and other arthropods, especially species that are of actual or potential importance as pests, parasitoids, predators and pollinators or are otherwise relevant to agriculture, forestry or related subjects. Contract research is also undertaken in these fields. The Institute's taxonomists work in the British Museum (Natural History) where they have access to the Museum's 23 million reference specimens of insects and mites, an incomparable aid to authoritative identifications and research on arthropod classification.

CAB International Mycological Institute (CMI)

CMI is the largest centre for systematic mycology in the world and provides a service for the identification of filamentous fungi and plant-pathogenic bacteria. It has about 300,000 dried reference specimens, a culture collection of more than 12,500 isolates, and extensive library, a Biodeterioration and Industrial Services Laboratory, a Biochemical Laboratory, and a Plant Pathology Liaison Unit. The Institute provides a wide range of consultancy and contract services for plant pathologists and industry. It incorporates the UK National Collection of Fungus Cultures and the Biodeterioration Centre.

CAB International Institute of Parasitology (CIP)

CIP provides an identification service for plant-parasitic and entomophilic nematodes, and helminth parasites of animals and man. The reference collections contain over 65,000 specimens, and an extensive specialist library is maintained. The Tropical Plant Nematology Advisory and Research Unit provides practical advice on plant-parasitic nematodes and their control worldwide, and the Institute also houses the WHO Filarial Reference Collection.

CAB International Institute of Biological Control (CIBC)

CIBC provides information and advice on biological control, undertakes research and implementation of programmes on biological control of major pests and weeds, and participates in integrated pest management programmes in association with other agencies. It has its headquarters in the UK but operates also from stations at Delémont, Switzerland; Rawalpindi, Pakistan; Nairobi, Kenya; and Curepe, Trinidad, West Indies.

All four Institutes carry out research, and offer a wide range of training activities from postgraduate studentships to special training courses both in the UK and abroad.

DEVELOPMENT SERVICES

The Development Services Group was established in 1986 to provide a sharper focus for CABI's consulting activities. It draws heavily on the unique scientific expertise and information resources available in the CABI Institutes and Bureaux, and its activities are backed by nearly sixty years of CABI involvement in science and world agriculture.

The Development Services offer practical advice and assistance on many pest-related or environmental problems in agriculture. Specific services include:

— project appraisal
— advice in a range of scientific disciplines
— research supervision
— research evaluation
— project implementation.

These services are offered in situations ranging from short-term individual consultancies to project components and major development projects. The current focus is on:

— integrated pest management programmes
— national crop protection services
— pest/disease identification and control
— crop-orientated pest and disease surveys.

One component of these activities that can be extended to any branch of agriculture or development is the provision of a comprehensive information service, involving expert review and analysis of all relevant literature.

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Az = Azerbaijan(i)/Azerbaidzhani/ Azerbaidzhanian	He = Hebrew	Pe = Persian
	Hu = Hungarian	Pl = Polish
Be = White Russian	In = Indonesian	Pt = Portuguese
Bg = Bulgarian	Is = Icelandic	Ro = Romanian
Ch = Chinese	It = Italian	Ru = Russian
Cs = Czech	Ja = Japanese	Sh = Serbo-Croatian
Da = Danish	Ko = Korean	Sk = Slovakian
De = German	La = Latin	Sn = Slovenian
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Fi = Finnish	My = Malay/Bahasamalaysia	Uk = Ukrainian

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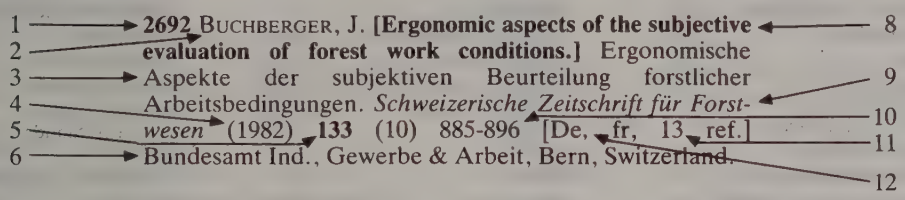
BIDS	Institute of Development Studies Library, University of Sussex, Brighton, Sussex BN1 9HR
BLDSC	British Library Document Supply Centre, Boston Spa, Wetherby, Yorks LS23 7BQ.
CDAB	CAB International Bureau of Plant Breeding and Genetics, Department of Applied Biology, Downing Street, Cambridge CB2 3BX. (Formerly CGB)
CFB	CAB International Forestry Bureau, Wallingford, Oxon OX10 8DE.
CIE	CAB International Institute of Entomology, 56 Queen's Gate, London SW7 5JR.
CIP	CAB International Institute of Parasitology, 395A Hatfield Road, St. Albans, Herts AL4 0XU
CMI	CAB International Mycological Institute, Ferry Lane, Kew, Richmond TW9 3AF.
EMIHR	CAB International Bureau of Horticulture and Plantation Crops, East Malling Research Station, AFRC Institute of Horticultural Research, Maidstone, Kent ME19 6BJ. (Formerly EMB)
HIGAP	AFRC Institute of Grassland and Animal Production, Hurley, Maidenhead, Berks SL6 5LR, via CAB International Bureau of Pastures and Field Crops, Wallingford, Oxon OX10 8DE. (Formerly APB)
IPC	Institute of Paper Chemistry, P.O. Box 1039, Appleton, Wisconsin 54911, USA.
LSOAS	School of Oriental and African Studies Library, University of London, Malet Street, London WC1E 7HP.
OB	Bodleian Library, University of Oxford, Oxford OX1 3BG.
OG	School of Geography Library, University of Oxford, Mansfield Road, Oxford OX1 3TB.
OH	Hope Dept. of Entomology, University Museum, Parks Road, Oxford OX1 3PW.
OP	Oxford Polytechnic Library, Headington, Oxford OX3 0PB.
OQEH	Agricultural Economics Unit Library and Commonwealth Studies Library, International Development Centre, Queen Elizabeth House, Oxford OX1 3LA.
ORS	Radcliffe Science Library, South Parks Road, Oxford OX1 3QP.
OZ	Department of Zoology, University of Oxford, Oxford OX1 3PS.
PR	Building Research Establishment, Princes Risborough Laboratory, Aylesbury, Bucks HP17 9PX.
SIER	AFRC Institute of Engineering Research, Silsoe, Bedford MK45 4HS. (Formerly NIAE)
SRIS	Science Reference and Information Service Library, 25 Southampton Buildings, London WC2A 1AW.
TRADA	Timber Research and Development Association, Hughenden Valley, High Wycombe, Bucks HP14 4ND.
X	Miscellaneous: apply to CAB International Forestry Bureau for details.

(d) Secondary Journal Source. The following abbreviations are used:

AATA	Art and Archaeology Technical Abstracts
ABIPC	Abstract Bulletin of the Institute of Paper Chemistry
CRRAGA	Countryside Recreation Research Advisory Group Abstracts

(e) Back references. These refer to notices in previous issues and appear in square brackets with an indication of volume and abstract number, e.g. [See *FA 41,* 3456.] [See *FPA 3,* 1234.]

(f) What an abstract contains.



7 → A report based on interviews with more than 300 forest workers and about 400 apprentices from German and French-speaking Cantons in Switzerland. Topics include: age group in relation to general evaluation of forest work; sources of job dissatisfaction; motives for choice of job; parts of body stressed during forest work; and environmental (climate, noise, vibration, exhaust) stresses. Important differences were frequently found between attitudes of workers in German vs. French Cantons; in some cases these related to (objectively) poorer working conditions in French-speaking Cantons.

(1)	Abstract number	(8)	English title
(2)	Author	(9)	Journal title
(3)	Foreign title	(10)	Page numbers
(4)	Year of publication	(11)	Supplementary data (can also include a library source as the last item, e.g. BLDSC)
(5)	Volume, part numbers		
(6)	Author's affiliation		
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3. Abbreviations, units and symbols. Standard SI symbols are used for metric units; these are not included here. Occasionally, other symbols not listed here are used when it is thought that they will present no difficulty to the readers concerned; this includes many geographical abbreviations such as ACT, UK, PA, etc.

Å	ångström
AAS	atomic absorption spectrometry
ABA	abscisic acid
a.e.	acid equivalent
AFNOR	Association Francaise de Normalisation
AFOCEL	Association Forêt-Cellulose
a.i.	active ingredient
alt.	altitude
approx.	approximately
ARMEF	Association pour la Rationalisation et le Mécanisation de l'Exploitation Forestière
ASTM	American Society for Testing Materials
atm	(standard) atmosphere
Aug.	August
av.	average
b.a.	basal area
bar	bar
bd ft	board feet
b.h.	breast height
BHC	benzene hexachloride
BOD	biochemical oxygen demand
BP	before present
BS(I)	British Standard(s) (Institution)
Btu	British thermal unit
c.a.i.	current annual increment
cal	calorie
CCA	copper-chrome-arsenic
CEC	cation exchange capacity
Ci	curie
COD	chemical oxygen demand
coeff.	coefficient
COMECON	Council for Mutual Economic Aid
conc.	concentrated
concn.	concentration(s)
const.	constant
CSF	Canadian standard freeness
CSIRO	Commonwealth Scientific and Industrial Research Organization (Australia)
cv.	cultivar
d.b.h.	diameter at breast height
DDT	dichlorodiphenyltrichloroethane
diam.	diameter
DIN	Deutsches Institut für Normung
dil.	dilute
DM	dry matter
DMSO	dimethyl sulphoxide
E.	east
ECE	Economic Commission for Europe
EC	European Communities
EM	electron microscope
e.m.c.	equilibrium moisture content
EPR	electron paramagnetic resonance
equiv.	equivalent
ESR	electron spin resonance
et al.	and others
F	filial generation
°F	degree Fahrenheit
FAO	Food and Agriculture Organization
Feb.	February
f.sp.	special form
ft	foot/feet
GA	gibberellic acid
gal	gallon (Imperial or US)
GC	gas chromatography
GOST	Gosudarstvennyĭ Obshchesoyuznyĭ Standart
h	hour
ha	hectare
hp	horse power
ht.	height
IAA	indoleacetic acid
IB	internal bond
IBA	indolebutyric acid
IBP	International Biological Programme
IR	infrared
ISO	International Organization for Standardization
IUFRO	International Union of Forestry Research Organizations
Jan.	January
kgf	kilogramme-force
lat.	latitude
lb	pound (weight)
lbf	pound-force
LC	lethal concentration
LD	lethal dose
long.	longitude
LVL	laminated veneer lumber
M	molar
m.a.i.	mean annual increment
max.	maximum
mbar	millibar
m.c.	moisture content
MDF	medium density fibreboard
min	minute (time)
min.	minimum
ml	millilitre
MMA	methyl methacrylate
MOE	modulus of elasticity
mol	mole
mol.	molecular
MOR	modulus of rupture
N.	north
NAA	naphthyl acetic acid
NE	north-east
NMR	nuclear magnetic resonance
Nov.	November
n.s.d.	no significant difference; not significantly different
NSSC	neutral sulphite semi-chemical
NW	north-west
o.b.	over bark
Oct.	October
OECD	Organization for Economic Cooperation and Development
opt.	optimum
OSB	oriented structural board
oz	ounce
P	probability
p.a.	per annum
p.a.i.	periodic annual increment
PCP	pentachlorophenol
PEG	polyethylene glycol
PF	phenol formaldehyde
p.p.	partly, in part
p.p.m.	parts per million
p.p.t.	parts per thousand
PVA	polyvinyl acetate
PVC	polyvinyl chloride
R	röntgen
r	coefficient of correlation
rad	rad
RF	resorcinol formaldehyde
RH	relative humidity
r.p.m.	revolutions per minute
S.	south
s.d.	standard deviation
SE	south-east
SEM	scanning electron microscope
Sep.	September
sig.	significant(ly)
s.l.	in a broad sense
sol.	solution(s)
sp.	species
sp.nov.	new species
s.s.	in a narrow sense
subsp.	subspecies
SW	south-west
syn.	synonym
t	tonne (not ton)
TCA	trichloroacetic acid
TEM	transmission electron microscope
temp.	temperature(s)
t. & g.	tongued and grooved
TLC	thin-layer chromatography
u.b.	under bark
UF	urea formaldehyde
UHF	ultra high frequency
ULV	ultra low volume
UNDP	United Nations Development Programme
USDA	United States Department of Agriculture
UV	ultraviolet
var.	variety
VHF	very high frequency
viz.	namely
vol.	volume
vs.	versus
W.	west
wk	week
w.p.	wettable powder
wt.	weight
yr	year
3P	probability proportional to prediction
- -′	minute (angle)
- -″	second (angle)
‖	parallel
⊥	perpendicular

4. Vernacular names. The vernacular names listed below may be used in abstracts instead of the Latin ones. Indexing is by Latin names.

acacia	*Acacia* (see also black wattle)
alder	*Alnus*
ash	*Fraxinus* (generally *F. excelsior* unless otherwise indicated)
Austrian pine	*Pinus nigra* (also Corsican pine)
balsa	*Ochroma pyramidale*
balsam fir	*Abies balsamea*
bamboo	Bambuseae
basswood	(see linden)
beech	*Fagus* (generally *F. sylvatica* unless otherwise indicated)
birch	*Betula* (*B. alba* is used for undifferentiated *B. pendula* and *B. pubescens*)
black spruce	*Picea mariana*
black walnut	*Juglans nigra*
black wattle	*Acacia mearnsii*
broadleaf	Angiospermae (tree; see also hardwood)
cashew	*Anacardium occidentale*
chir	*Pinus roxburghii*
coconut	*Cocos nucifera*
conifer	Coniferae (see also softwood)
Corsican pine	*Pinus nigra* (also Austrian pine)
deodar	*Cedrus deodara*
dipterocarp	Dipterocarpaceae
Douglas fir	*Pseudotsuga menziesii*
eastern hemlock	*Tsuga canadensis*
eastern white pine	*Pinus strobus* (also Weymouth pine)
elm	*Ulmus*
Engelmann spruce	*Picea engelmannii*
eucalypt	*Eucalyptus*
fig	*Ficus*
fir	*Abies* (see also Douglas fir)
hardwood	Angiospermae (timber; see also broadleaf)
hazel	*Corylus avellana*
hem-fir	*Tsuga* + *Abies* (lumber)
hemlock	(see eastern, western hemlock)
hickory	*Carya*
hinoki	*Chamaecyparis obtusa*
holly	*Ilex*
hoop pine	*Araucaria cunninghamii*
hornbeam	*Carpinus betulus*
jack pine	*Pinus banksiana*
juniper	*Juniperus*
kauri	*Agathis* (*A. australis* in New Zealand)
larch	*Larix* (see also tamarack)
linden	*Tilia* (also referred to elsewhere as 'lime' and 'basswood')
loblolly pine	*Pinus taeda* (see also southern pine)
lodgepole pine	*Pinus contorta*
longleaf pine	*Pinus palustris* (see also southern pine)
mango	*Mangifera indica*
maple	*Acer*
maritime pine	*Pinus pinaster*
mulberry	*Morus*
neem	*Azadirachta indica*
Norway spruce	*Picea abies*
oak	*Quercus* (*Q. robur* s.l. is used for undifferentiated *Q. robur* and *Q. petraea*)
palm	Palmae
Parana pine	*Araucaria angustifolia*
pine	*Pinus* (see also hoop pine, Parana pine)
ponderosa pine	*Pinus ponderosa*
poplar	*Populus* (see also yellow poplar)
radiata pine	*Pinus radiata* (also referred to elsewhere as 'Monterey pine')
rattan	*Calamus* and/or *Daemonorops* (mainly)
red oak	*Quercus rubra* (northern red oak of the USA)
robinia	*Robinia pseudoacacia* (also referred to elsewhere as 'false acacia', 'locust' etc.)
rubber	*Hevea brasiliensis* (unless otherwise indicated)
sal	*Shorea robusta*
sandalwood	*Santalum album*
Scots pine	*Pinus sylvestris*
shortleaf pine	*Pinus echinata* (see also southern pine)
silver fir	*Abies alba*
Sitka spruce	*Picea sitchensis*
slash pine	*Pinus elliottii* (see also southern pine)
softwood	Gymnospermae (timber; see also conifer)
southern pine	*Pinus echinata, P. elliottii, P. palustris* and *P. taeda* (indexed as *P.* 'Southern')
spruce	*Picea*
sugar maple	*Acer saccharum*
sugi	*Cryptomeria japonica*
sweetgum	*Liquidambar styraciflua*
tamarack	*Larix laricina*
teak	*Tectona grandis*
walnut	*Juglans regia* (see also black walnut)
Weymouth pine	*Pinus strobus* (also eastern white pine)
white oak	*Quercus alba*
white spruce	*Picea glauca*
western hemlock	*Tsuga heterophylla*
willow	*Salix*
yellow poplar	*Liriodendron tulipifera* (also referred to elsewhere as 'tulip tree')
yew	*Taxus baccata* (other species by Latin names)

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Page	*Abstract*	*Line*	
14	99	6, 9	For ' *garuba* ' read ' *guruba* '
34	302	6	For ' *champaka* ' read ' *champaca* '
46	418	4	After ' *gloeosporioides* ' insert ' [*Glomerella cingulata*] '
51	478	6	For ' *splenaiaella* ' read ' *splendidella* [*D. sylvestrella*] '
112	1028	14	After ' *Peniophora* ' insert ' [*Phlebia*] '
122	1120	15	After ' *grosseserrata* ' insert ' [*Q. crispula*] '
195	1187	17	After ' *Dothichiza* ' insert ' [*Cryptodiaporthe*] '
196	1199	7	After ' *japonica* ' insert ' [*B. mandshurica*] '
215	1371	2	After ' **Metrosideros** ' insert ' **[collina]** '
222	1448	9	After ' *E.* ' insert ' [*Cryphonectria*] '
271	1665	8	After ' *grosseserrata* ' insert ' [*Q. crispula*] '
292	1861	7	After ' *strobilinus* ' insert ' [*S. conigenus*] '
293	1862	7	After ' *strobilinus* ' insert ' [*S. conigenus*] '
388	2636	5	For ' but are ..... some ways, ' read ' but may be of interest in some ways, for example, '
406	2800	10–11	For ' *Lagarostrobus* ' read ' *Lagarostrobos* '
440	3083	15	After ' *grosseserrata* ' insert ' [*Q. crispula*] '
508	3710	9–10	After ' *grosseserrata* ' insert ' [*Q. crispula*] '
515	3779	14	After ' *strobilinus* ' insert ' [*S. conigenus*] '
527	3877	11	After ' *grosseserrata* ' insert ' [*Q. crispula*] '
528	3886	13	After ' *torrileana* ' add ' [*E. torelliana*] '
544	4000	1	For ' SPIEKER ' read ' SPIECKER '
548	4044	1	For ' HAIBABA ' read ' HAIBARA '
561	4160	11	After ' *Calocedrus* ' insert ' [*Libocedrus*] '
596	4455	7	After ' *platyphylla* ' insert ' [*B. mandshurica*] '
602	4526	1	For ' KAP, D. K. ' read ' KIM, K. D. '
605	4558	1	For ' CHANG, H. K.; YONG, M. C. ' read ' KIM, C. H.; CHEONG, Y. M. '
605	4559	1	For ' YONG, M. C. ' read ' CHEONG, Y. M. '
610	4600	1	For ' GAB, T. K. ' read ' KIM, G. T. '
611	4616	9	After ' *grosseserrata* ' insert ' [*Q. crispula*] '
620	4697	9	After ' *B. ribis* ' insert ' [*B. dothidea*] '
621	4710	15	After ' *nigricans* ' insert ' [*R. stolonifera*] '
657	4884	1	For ' YOUNG, C. K. ' read ' KIM, Y. C. '
676	5060	1	For ' NYIRDEY ' read ' NYIREDY '
685	5152	20–21	After ' *purpurascens* ' insert ' [*E. nigrum*] '
727	5504	1	For ' BRUINJNZEEL ' read ' BRUIJNZEEL '
743	5660	9	After ' *Ascocalyx* ' insert ' [*Gremmeniella*] '

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